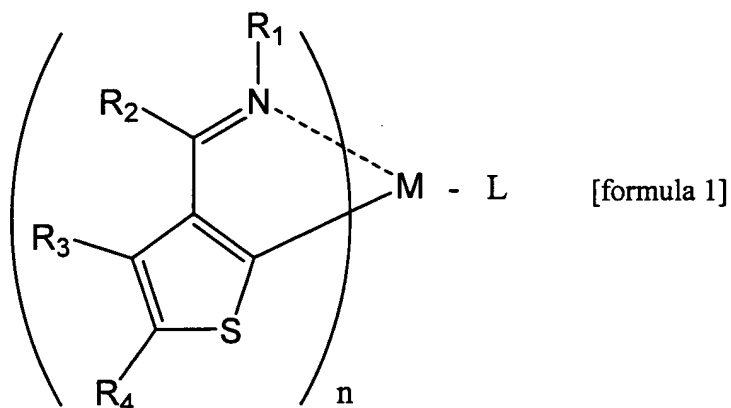


## CLAIMS

1. A phosphorescent compound represented by general formula [formula 1]:

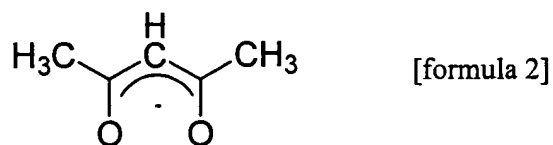


5 wherein  $R_1$  is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group. Also,  $R_2$  is hydrogen, an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group. Also,  $R_3$  and  $R_4$ , each of which may be the same or different, are individually  
 10 hydrogen, a halogen element, an alkyl group, an alkoxy group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group. Also,  $M$  is at least one element of group 9 in the periodic table or at least one element of group 10 in the periodic table. When the  $M$  is at least one element of group 9 in the periodic table,  $n=2$ . When the  $M$  is at least one element of group 10 in the periodic table,  $n=1$ . Also,  $L$  is a monoanionic ligand having a  $\beta$ -diketone structure, a  
 15 monoanionic bidentate chelate ligand having a carboxyl group, or a monoanionic bidentate chelate ligand having a phenolic hydroxyl group.

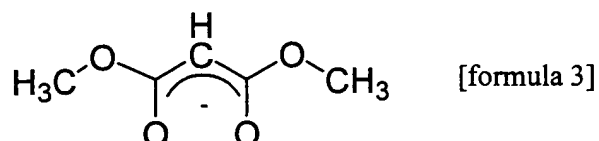
2. A phosphorescent compound according to claim 1, wherein the  $M$  is an iridium element or a platinum element.

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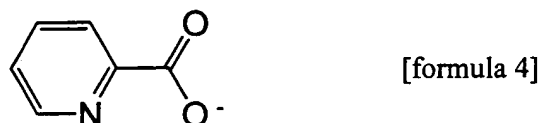
3. A phosphorescent compound according to claim 1, wherein the  $L$  is a monoanionic ligand represented by structural formula [formula 2].



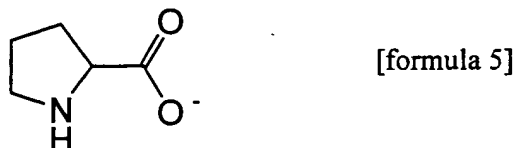
4. A phosphorescent compound according to claim 1, wherein the L is a monoanionic ligand represented by structural formula [formula 3].



5. A phosphorescent compound according to claim 1, wherein the L is a monoanionic ligand represented by structural formula [formula 4].



6. A phosphorescent compound according to claim 1, wherein the L is a monoanionic ligand represented by structural formula [formula 5].



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7. A phosphorescent compound according to claim 1, wherein the L is a monoanionic ligand represented by structural formula [formula 6].

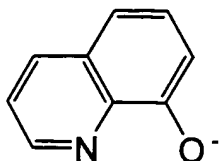


8. A phosphorescent compound according to claim 1, wherein the L is a monoanionic ligand represented by structural formula [formula 7].

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9. A phosphorescent compound according to claim 1, wherein the L is a monoanionic ligand represented by structural formula [formula 8].



[formula 8]

10. An electroluminescent device having the phosphorescent compound  
5 according to claim 1.

11. An electroluminescent device using the phosphorescent compound  
according to claim 1 as a light emitter.

10 12. A light-emitting device having the electroluminescent device according to  
claim 10.

13. A light-emitting device having the electroluminescent device according to  
claim 11.

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14. An electric appliance having the light-emitting device according to claim  
12 in a display portion.

15. An electric appliance having the light-emitting device according to claim  
20 13 in a display portion.